

From glowbugs@theporch.com Fri Jan 24 12:45:22 1997
Return-Path: <glowbugs@theporch.com>
Received: from uro (localhost.theporch.com [127.0.0.1])
by uro.theporch.com (8.8.5/AUX-3.1.1)
with SMTP id MAA23724;
Fri, 24 Jan 1997 12:35:06 -0600 (CST)
Date: Fri, 24 Jan 1997 12:35:06 -0600 (CST)
Message-Id: <199701241835.MAA23724@uro.theporch.com>
Errors-To: ws4s@infoave.net
Reply-To: glowbugs@theporch.com
Originator: glowbugs@theporch.com
Sender: glowbugs@theporch.com
Precedence: bulk
From: glowbugs@theporch.com
To: Multiple recipients of list <glowbugs@theporch.com>
Subject: GLOWBUGS digest 425
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas
X-Comment: Please send list server requests to listproc@theporch.com
Status: 0

GLOWBUGS Digest 425

Topics covered in this issue include:

- 1) thanks
by wmcshan@REX.RE.uokhsc.edu (Mike McShan)
- 2) Re: Wee-Ceiver
by rdkeys@csemail.cropsci.ncsu.edu
- 3) Handbooks, egad!
by wmcshan@REX.RE.uokhsc.edu (Mike McShan)
- 4) Re: BA/GB Topband Funzies (fwd)
by rdkeys@csemail.cropsci.ncsu.edu
- 5) Wee-Ceiver and the ARRL's Periodicals Index
by jeffd@coriolis.com (Jeff Duntemann)
- 6) Re: Wee-Ceiver and the ARRL's Periodicals Index
by John D Young <jdy@whitney.ufl.edu>
- 7) Re: Wee-Ceiver and the ARRL's Periodicals Index
by jeffd@coriolis.com (Jeff Duntemann)
- 8) GB WAS on 160
by Conard Murray <ws4s@InfoAve.Net>
- 9) Re: Is glowbugs the forum for this?
by "Robert M. Bratcher Jr." <bratcher@worldnet.att.net>
- 10) Re: Which HB?
by "KF4MZD (John Kemker)" <kemkerj@xyzyzy.net>
- 11) quote of the day
by Bob Roehrig <broehrig@admin.aurora.edu>
- 12) "chris" <guardianone@mvtel.net>: need halacrafter part info
by sigcom@juno.com (Stephen M Smith)

- 13) Tube sleepers from AES winter supplement
by rdkeys@csemail.cropsci.ncsu.edu
- 14) Re: Wee-Ceiver
by torell@sicom.com (Kent Torell)
- 15) Who will brave the 160 CQ WW Test with a BA or GB rig?
by rdkeys@csemail.cropsci.ncsu.edu
- 16) The Wee Ceiver
by jeffd@coriolis.com (Jeff Duntemann)
- 17) Re: Tube sleepers from AES winter supplement
by "Deane D McIntyre" <dmcintyr@acs.ucalgary.ca>
- 18) Re: Tube sleepers from AES winter supplement
by rdkeys@csemail.cropsci.ncsu.edu
- 19) What 12xx7 tube is closest to the 5963 dual triode?
by rdkeys@csemail.cropsci.ncsu.edu
- 20) What tube would you use in a lifetime application?
by rdkeys@csemail.cropsci.ncsu.edu
- 21) Re: What tube would you use in a lifetime application?
by mjsilva@ix.netcom.com (michael silva)

Date: Thu, 23 Jan 1997 13:02:25 -0600
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
To: glowbugs@theporch.com
Subject: thanks
Message-ID: <v01540b02af0d65693c59@[157.142.56.167]>

Thanks for the replys about which HB to get - I'll probably go with the 1960. Now if I could only find some HBs from the earlier decades...

72/73,
Mike N5JKY
Edmond, OK

Date: Thu, 23 Jan 1997 15:39:27 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: jeffd@coriolis.com
Cc: rdkeys@csemail.cropsci.ncsu.edu (), glowbugs@theporch.com
Subject: Re: Wee-Ceiver
Message-ID: <9701232039.AA129812@csemail.cropsci.ncsu.edu>

> Bob mentioned the Wee-Ceiver, which was published in CQ Magazine in the
> mid-Sixties. I built it many years ago, and it worked tolerably well on
> strong stations like WWV and SWBC but suffered on low level signals,

> probably due to its not having an audio stage, or maybe my cans were pure
> tin. Hard to tell; that was 1975. It was in a Sucrets box, which is
> probably identical to today's Altoids box. (Curiously Selective?)

Something about small tin boxen from here and abroad that have a touch
o' romance when a warm glow emanates therefrom.

Anyone have the citation for the Wee-Ceiver article?

There was also another classic by a Japanese SWL who built a magnificent
late model regen detector and one step about the same time that was titled
the ``Peanut Whistle'' receiver --- from whence cometh my use of the peanut
whistle remark, that I use occasionally. It was a pure essence of magic
receiver that the fellow took some real time and care with. I always
thought that would be a real fine project receiver sometime, because of
its high quality design. Alas, the parts for it are 60's Japanese
unobtainium coil forms and dials, but it could be duplicated with good
replacements, since it was functionally not all that different from a
good pentode detector and pentode output receiver. The best attempt
at a high class detector and one step receiver from the 60's period
was probably the one in the How to Become a Ham guides that used a
pair of 6AQ5's in a good rf tight box and had a speaker output to boot.
There was a companion 6DQ6 transmitter that looked pretty good on paper.

> Maybe it's heresy but there was a passing tradition of "hybrid" receivers in
> the Sixties, typically a tube detector followed by a single-transistor audio
> stage powered by the same 1.5v or 3v supply that lit the tube. Such a
> hybrid could fit into an Altoids box in style, especially if you're using
> one of those subminiature tubes. (I have a couple of them but have never
> tried using them.) For true period effect try to find a period transistor
> like a 2N107 or a CK722.

It is not really heresy, but in interesting twist in the changeover era.
If I remember right, the Wee-Ceiver had a 2N107 as the audio stage and
a tiny little interstage transistor audio transformer for the coupler.

The peanut tubes should be workable at 9 volts on the plates so you
could use a 2N107 as the audio, pretty well, but that is getting too
late for my tastes.

That receiver gave me the idea to try the fet plus 3 step resistance
coupled set. It only worked fair though, and not well enough to be
worthwhile. There was a similar sort of regen recreation that ran off
a 1.5 volt battery using an fet in an old style fliptop black crinkle
box with a velvet vernier on it. I don't remember much else about it
though. It was called the WWV receiver and was probably in a 70's CQ
or such.

> Just a suggestion; it seems somehow oddly appropriate to put a subminiature
> tube in the same can with one of its younger and less vacuous buddies. If
> anybody does one of these please post the circuit, since it's something I'd
> like to try someday. But on its own, I do NOT recommend the Wee-Ceiver as a
> ham radio receiver, tho it worked fine on the BBC. (Ditto the receiver in
> Alfred Morgan's BOY'S FIRST BOOK OF RADIO AND ELECTRONICS, which I also
> built and still have lying around somewhere.)

Well, rather than being odd, it will make the new folks that have not been
exposed to vacuum tube technology, look twice. That was one reason for
suggesting a display set with hidden peanut tube(s) and let them see if
they can find the electronic radio devices therein.....(:+}}..... mebbe
glue a dead bug thingie on top of the hidden tube cans, for effect.....(:+}}.

There was also a single tuber regen using a 3V4 I think in the mid 50's
edition of the How to Become a Ham guides. I built that one, but it
did not work very well. Better to stick to the standard 2-tubes sort
of thing, for minimal generic use. I think most of us probably agree
on that as the minimum set.

Hmmmmm, I wonder if we could make a 10 tube regen trf set....(:+}},
the other extreme..... lessee..... 4 stages of tuned RF, a detector,
3 low stages of audio to headfones, and a pushpull output stage, all
using maybe some of the 2 or 3 or 4 volt tubes with a series string
so that only one 36 or 48 volt filament and combined plate supply
was needed, with one tube type throughout. Nah....., or, maybe.....

73/ZUT DE NA4G/Bob UP

Date: Thu, 23 Jan 1997 13:23:52 -0600
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
To: glowbugs@theporch.com
Subject: Handbooks, egad!
Message-ID: <v01540b03af0d6acf8169@[157.142.56.167]>

Never hesitate to purchase old ARRL Handbooks - the 1958 and 1960 have
been taken while I thought about it!!! Needless to say, I snatched up the
1965.

He who hesitates....etc.

Mike N5JKY
Edmond, OK

Date: Thu, 23 Jan 1997 16:30:25 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: glowbugs@theporch.com
Cc: rdkeys@csemail.cropsci.ncsu.edu (), thompson@mindspring.com
Subject: Re: BA/GB Topband Funzies (fwd)
Message-ID: <9701232130.AA130018@csemail.cropsci.ncsu.edu>

Forwarded message:

> From: "David L. Thompson" <thompson@mindspring.com>
> Subject: Re: BA/GB Topband Funzies
>
> At 12:14 PM 1/23/97 -0600, you wrote:
> >I feel an attack o' de ol' Topbanditis, recurring, 'ere.
> >
> Bob,
>
> Yes this is the weekend for the CQ WW 160 CW from 2200Z Friday to 1600Z
> Sunday.

OK, it appears we are preempted friday and saturday nights but thursday
and sunday nights are open territory..... also, see next paragraph.....

> Why not try to work all states BA during the contest. I will provide
> certificates to glowbugs that reach 40, 48 and 50! Its a great way to
> get 160 WAS! Just have them send me a list if they don't want to send
> me an official log. PASS THE WORD.

Well, this might be a way for us to rustle some ether with the bigboyz
on 160 down on the bottom end. Mebbe I otta fire up Big Bertha for
a run on the RAL regenerator..... what the heck. Any BA/GB folks
interested in this sort of trial by fire for the OT gear?

> Even might run into some DX.....

Yea, I worked a TI9 or something like that a couple of years back
while playing around.

> A C0 (cuba) entered with a Viking Valiant II and HQ180 and I get logs with
> old BA equipment from around the world. K9ALP at Ohio State used his DX100
> and HQ170 in 1992 and 3.

Sounds like a weener.

> I see Super Pros, Drake Lines, AR-88's et al along with the Rice boxes and
> Ten-Tec!

Well, let us show them thar ricenboxen folks wat REAL radios wats Glows in the dark can do, hehehehehe.....

> Several of our BA group will be on.....John K9UWA is at P40WA, KX4R ,
> and look for our Multi Op W4WA!
>
> 73, Dave K4JRB

OK I will pass the word around on the glowbugs.....

73/ZUT DE NA4G/Bob UP

Date: Thu, 23 Jan 1997 13:33:56 -0700
From: jeffd@coriolis.com (Jeff Duntemann)
To: glowbugs@theporch.com
Subject: Wee-Ceiver and the ARRL's Periodicals Index
Message-ID: <1.5.4.32.19970123132720.00faf438@165.247.88.2>

Per Bob's request, I'll dig tonight and try and find the magazine with the Wee-Ceiver in it. I don't recall it having a transistor audio stage, and it's possible I'm thinking of another radio from that era. (The one I built certainly didn't have a separate audio stage of any kind.) We'll find out fersure once I wade through the Archives!

By the way, one way I find things so quickly is that I use the radio periodicals index that ARRL sells, called "From Beverage Through Oscar." It has saved me an IMMENSE amount of time cruising my 1000+ magazines out in the garage. Anybody with a lot of mags from the glowbug era should consider getting that product.

--73--

--Jeff Duntemann KG7JF
Scottsdale, Arizona

Date: Thu, 23 Jan 1997 15:52:44 -0500 (EST)
From: John D Young <jdy@whitney.ufl.edu>
To: Jeff Duntemann <jeffd@coriolis.com>
Subject: Re: Wee-Ceiver and the ARRL's Periodicals Index
Message-ID: <Pine.LNX.3.91.970123155101.18735A-100000@whitney.ufl.edu>

Jeff

I have been using FBT0 on my computer for several years. Problem is it covers 1945-1988 and I have not seen any info on updates. Are you using the computer version or the paper one?

73 John WA8KNE

On Thu, 23 Jan 1997, Jeff Duntemann wrote:

> Per Bob's request, I'll dig tonight and try and find the magazine with the
> Wee-Ceiver in it. I don't recall it having a transistor audio stage, and
> it's possible I'm thinking of another radio from that era. (The one I built
> certainly didn't have a separate audio stage of any kind.) We'll find out
> fersure once I wade through the Archives!

>

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> periodicals index that ARRL sells, called "From Beverage Through Oscar." It
> has saved me an IMMENSE amount of time cruising my 1000+ magazines out in
> the garage. Anybody with a lot of mags from the glowbug era should consider
> getting that product.

>

> --73--

>

> --Jeff Duntemann KG7JF

> Scottsdale, Arizona

>

Date: Thu, 23 Jan 1997 14:15:36 -0700

From: jeffd@coriolis.com (Jeff Duntemann)

To: jdy@whitney.ufl.edu

Cc: glowbugs@theporch.com

Subject: Re: Wee-Ceiver and the ARRL's Periodicals Index

Message-ID: <1.5.4.32.19970123140900.00fac338@165.247.88.2>

At 02:53 PM 1/23/97 -0600, WA8KNE wrote:

>I have been using FBT0 on my computer for several years. Problem
>is it covers 1945-1988 and I have not seen any info on updates. Are you
>using the computer version or the paper one?

>

>73 John WA8KNE

I'm using the computer version, which is a very simple and quite fast DOS application, and bought it in 1990 or 1991. I am not aware of any updates, and keep forgetting to pester ARRL to find out if any are available. As I use it almost entirely to look for tube stuff I haven't missed the last 8

years that aren't included.

BTW, unless I misremember, it goes back farther than 1945. I recall looking up regen information from the early 1930's and it was there.

If I manage to score an update diskette I'll post a report here.

--73--

--Jeff Duntemann KG7JF
Scottsdale, Arizona

Date: Thu, 23 Jan 1997 15:35:27 -0500
From: Conard Murray <ws4s@InfoAve.Net>
To: glowbugs@theporch.com
Subject: GB WAS on 160
Message-ID: <2.2.32.19970123203527.00a20934@infoave.net>

Hey Gang,
I think this is a great idea let's try to snag all 50 during the CQ WW 160 contest this weekend. K4JRB has volunteered certificates and I will donate a 'lifetime supply of triodes' to the station with the highest state total. In event of a tie for high number I will decide the award based upon the gear used and operating skill involved. Homebrew edges out mil stuff which edges out Hallihoositscratchers and the like. Skill is a bit harder to define, but things like operating asleep and sending readable cw with a sideswiper go a long way.
Special note to Jeff, KH2PZ you had better get on for this one and give us Hawaii! Skeds allowed.
73 all ... CU on 160!
de Conard WS4S

.....
. Conard Murray WS4S Glowbugs listowner .
. 217 Dyer Avenue ws4s@infoave.net .
. Cookeville, TN 38501 615-526-4093 .
. <>< Wise men still seek Him <>< .
.....

Date: Thu, 23 Jan 1997 15:27:20 -0600
From: "Robert M. Bratcher Jr." <bratcher@worldnet.att.net>
To: jherman@hawaii.edu

Cc: glowbugs@theporch.com

Subject: Re: Is glowbugs the forum for this?

Message-ID: <3.0.32.19970123152715.006d43b8@postoffice.worldnet.att.net>

At 12:29 AM 1/23/97 +0000, you wrote:

>On Wed, 22 Jan 1997, michael silva wrote:

>> wonder if low-power self-excited operation at the top of the BC band is
>> feasible over a mile or so, both using the strict FCC guidelines and a
>> slightly more liberal "don't bother anybody" approach? (I'm sure the
>> FCC is just waiting to pounce on any 200 mW stations using 25'
>> antennas, right?)

>

>I did this with a buddy of my back in the (gad!) 60s. We found a circuit
>from one of those "100 Electronic Projects" type books for a tone-
>modulated CW xmtr. Finding a clear spot on the AM BCB in L.A. was
>difficult - ended up xmting on a weak Mexican stn (the tones sure
>were pretty to listen to (later I learned about harmonics generated
>from two frequencies beating together)).

>

>We quickly found our range could be greatly extended by using long
>wire antennas....

>

>I've recently rediscovered that same tone-modulated self-excited
>BCB CW xmtr. It's interesting how such a simple discovery can bring
>back a flood of fun memories.

>

>Jeff KH2PZ

>

>

I did this same CW stuff with a friend in high school during the 70's. Only our transmitters weren't tone modulated just pure CW since we both had good shortwave receivers. My setup was all tube, his solid state. My RF power was higher too, about half a watt while his was about 200 mw or so. We transmitted on 1620 khz over a three quarter mile range with longwire antennas and homemade tuners. I was the only one licensed at the time Mark and I started but he got his license soon after. Yes that was a ball all right. We left a receiver tuned to our "private" frequency whenever we were in our radio shacks and every now and then the CW would start. We would tell each other about our latest ham contact or SWL catch, that sort of thing. Sometimes it was other subjects like school or girlfriends. I lost track of him when he moved out of town after graduation though...

Low power CW can be done at the top of the AM band. Just match the antenna good. Plus the longer that antenna wire is the better the range.

Good luck!

Robert M. Bratcher Jr.

E-mail to:

bratcher@worldnet.att.net

Record collector, 8mm, super 8, 16 and 35mm Film collector.

I like old radio's too.

Collins, Hallicrafters, National & Hammurand are my Favorites!

Date: Thu, 23 Jan 1997 18:14:08 +0000

From: "KF4MZD (John Kemker)" <kemkerj@xyzzy.net>

To: glowbugs@theporch.com

Subject: Re: Which HB?

Message-ID: <9701232315.AA18597@ponyxprs.atlanta.med.va.gov>

On 23 Jan 97 at 12:21, Jeff Duntemann wrote:

<SNIP!>

> Egad, man, get 'em all! But if I had to choose one it would be the
> 1960 edition. 1965 is starting to slide toward solid state, and I

I dunno, Jeff, I've got the '76 (finally got a copy of the first ARRL Handbook I ever bought, years before I got my ticket...*20 years* before!) and it has PLENTY of glowbuggen projects. As a matter of fact, it's kinda hard to find a NON-glowbug project in the book!

--John K.

=====
73 de KF4MZD (John Kemker)
kemkerj@xyzzy.net
EM73vt

Date: Thu, 23 Jan 1997 21:44:59 -0600 (CST)

From: Bob Roehrig <broehrig@admin.aurora.edu>

To: Boatanchors <boatanchors@theporch.com>, glowbugs <glowbugs@theporch.com>

Subject: quote of the day

Message-ID: <Pine.ULT.3.95.970123213253.29671A-100000@admin.aurora.edu>

I picked up a copy of "The Book of Wireless Telegraph & Telephone" by A. Frederick Collins (who claims to be the inventor of wireless telephone). As with a lot of old writings, the language is sometimes humorous:

"Potentiometer is a big word and means an apparatus for measuring

electrical pressures. It is a word which never should have been used for the variable resistance of a wireless receiving set, since electrical pressures, which are set up by the crystal, are not measured but simply varied to meet the needs of the detector. But since the word is used by all wireless workers, right or wrong, we must accept it and use it too".

And remember: "Do not hold down the strap of the sending key any longer than it takes to make a dot or dash. If you do not heed this warning your battery of dry cells will soon run down and you will have to buy new ones or else close up shop"!

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Thu, 23 Jan 1997 23:25:25 EST
From: sigcom@juno.com (Stephen M Smith)
To: glowbugs@theporch.com
Subject: "chris" <guardianone@mvtel.net>: need halacrafter part info
Message-ID: <19970123.202429.8287.1.sigcom@juno.com>

----- Begin forwarded message -----
From: "chris" <guardianone@mvtel.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: need halacrafter part info
Date: Thu, 23 Jan 1997 17:37:06 -0600
Message-ID: <9701232336.AA14931@host.ot.centuryinter.net>

I am looking for a part source for a halacrafter HT46. the part # is pn 050-002104. this is for the transmitter transformer. the # on the transformer former is 1052-6546.

thanks for an help kb5vyb chris

----- End forwarded message -----

Date: Fri, 24 Jan 1997 11:23:52 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: glowbugs@theporch.com
Cc: rdkeys@csemail.cropsci.ncsu.edu ()
Subject: Tube sleepers from AES winter supplement

Message-ID: <9701241623.AA131243@csemail.cropsci.ncsu.edu>

I was looking over the AES winter flyer supplement for the usual odd project tube to pick up in bulk, and did not see much this time.

But, there were several that might be of interest to the Glowebuggeites.

TYPE	PRICE	FUNCTION
3FQ5/3GK5	1.00	This is a good 3 volt tv scrappo triode tube used in vhf tuners, high-mu, 2.8v @ 0.45a, 200v plate, 7FP base. This should be good for a regen detector and audio amp. There were 2, 3, 4, and 6 volt versions.
6BC4	1.00	This is another of those vhf triodes but in medium-mu, 6.3vac, 0.225a, 250v plate, base 9DR. The grid pinout on this is quite interesting, on both sides of the base. That should make it an easy adapter tube for subbing on a 4, 5, 6, 7, 8 pin base to old style gear.
6DB5	0.50	THIS IS A REAL SLEEPER. It is 300 volt 50ma plate current beam power tube on a 9GR basing, 6.3 vac, 1.2 amp filament. At 50 cents each this is a real good value for qrp rigs or for oscillators or for pentode power detectors and audio stages. This one might be worth a dozen or so for playing.
6EA5/6EV5	0.50	THIS IS A SLEEPER. It is a small sharp cutoff tetrode on a 7EW basing, 6.3vac, 0.200 amp filament, 250v plate, 8000 micromho transconductance. This should make a pretty good regen detector and choke coupled audio stage, perhaps. It might be worth playing with.

That is all that came to mind.

There is one other tube type that they list at 50 cents each. It is the 6AN5WA. Anyone know what that tube type is? I could not find a listing for it in my RCA RC-26 manual.

73/ZUT DE NA4G/Bob UP

Date: Thu, 23 Jan 1997 14:43:39 -0700

From: torell@sicom.com (Kent Torell)
To: glowbugs@theporch.com
Subject: Re: Wee-Ceiver
Message-ID: <v02130505af0d897aa2d5@[192.91.202.41]>

Boat-anchor Bob writes:

>That receiver gave me the idea to try the fet plus 3 step resistance
>coupled set. It only worked fair though, and not well enough to be
>worthwhile. There was a similar sort of regen recreation that ran off
>a 1.5 volt battery using an fet in an old style fliptop black crinkle
>box with a velvet vernier on it. I don't remember much else about it
>though. It was called the WWV receiver and was probably in a 70's CQ
>or such.

A Simple Regenerative WWV Receiver, Courtney Hall WA5SNZ
Ham Radio, April 1973 pp. 42-45

1.5 volt design, 4 transistors, capacitive regeneration control.

Looks like most of the regen instructions from the list here apply...it
mited be a fair and simple test radio for learnin regens before committn to
some serious tube circuits...a little ball of sand-state stuff for a
breadboard doesn't scare me as much as a thermionic atomic heater-blast
radio what glows in the dark...(now, you must know, my first receivers and
transmitters were indeed home made tube jobbies, and I plan on building a
Nice Looking Regen that glows-in-the-dark and can be on display and
functional in the family room :-)

Kent Torell torell@sicom.com 602-483-2867 x230
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260

Date: Fri, 24 Jan 1997 11:43:21 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: glowbugs@theporch.com
Cc: rdkeys@csemail.cropsci.ncsu.edu ()
Subject: Who will brave the 160 CQ WW Test with a BA or GB rig?
Message-ID: <9701241643.AA131305@csemail.cropsci.ncsu.edu>

I am curious as to who will actually brave the fracas on the ol top
band for the 160M CQ WW cw test this weekend, WITH A BOATANCHOR OR A
GLOWBUG RIG? Apparently, there are a few folks that regularly do that,
but are not part of the list. I will try to be there with Big Bertha

and her lusty pair of 813's, and the RAL regenerator. It might be an easy way to get close to a WAS on 160. Our illustrious listleader has mentioned some sort of GlowPrize as a good idea. I will offer to make up some sort of wallpaper certificate for anyone who gets a WACA (Worked all Call Areas ...i.e., worked at least 1 station in each call area --- that amounts to 10 stations for the 0 through 9 call areas). I will make up two kinds. A plain one for anyone using boatanchors, and a fancy one for those brave and adventurous souls who will make it on a JANuine homebrewed GlowBugge rig! My guess is that there are not enough real glowbugs out there on 160M with enough power to make all 10 call areas. But, I will extend the offer to anyone that submits a log with the required 10 call areas. I will include Canada, Mexico, and the assortment of Carribbean islands as additional possibles as valid call areas so that adds a few more call areas, that might make it possible for the GlowBuggeite folks to get 10 different call areas.

It would be a real challenge to get a WAS on a BA rig, but it might be possible. I posted a mailing from a fellow that would make up something for anyone who got 40, 48, or 52 states last night. So..... there is a general challenge afoot to all ye fine and illustrious GlowBuggeite and Boatanchorite Folks to tally ho and see what you can do in the CQ WW CW 160M fracas this weekend. Let us show them thar ricenboxen folk just what a real radio can do!

Any takers?

73/ZUT DE NA4G/Bob UP

Date: Fri, 24 Jan 1997 08:59:47 -0700
From: jeffd@coriolis.com (Jeff Duntemann)
To: glowbugs@theporch.com
Subject: The Wee Ceiver
Message-ID: <1.5.4.32.19970124085303.00fb2040@165.247.88.2>

Hi gang--

Dug deep in the Archives last night and found the magazine with the Wee Ceiver article, CQ for October 1967, page 23, author Byron C. Weaver, WB2HAL. I have to reverse a comment I made yesterday; I did NOT build this radio. No idea which one it actually was, but I know I built a 3V4 battery receiver in a very small case back when I was a Novice.

So definitely let me retract my negative recommendation. This thing could

work very well.

The circuit is very simple: a 3V4 regen using a Hartley-style tank with a tap 1t up from the cold end of 22 turns of B&W 3015. No tickler. Antenna comes in through a 3-turn primary. There's a 75 uuf bandset and a 10 uuf bandspread variable, and a 50K pot for regen control in the screen circuit. A miniature audio transformer is used as a choke in the 67v plate run, and audio is fed to a 2N107 transistor amp running on 3v.

And it really is in a Sucrets box. Tight work, and requires very small variable caps.

Interestingly enough, there's a picture of an integrated circuit on the cover of the mag, and all of the other projects are solid state.

Nuther subject: Somewhere in either PE or EI from the mid-Sixties was a circuit of a superregen AM 110-118 Mhz aircraft receiver using one of those 12v plate supply space charge tubes. A friend of mine in grade school build the radio and it worked beautifully, and I have been looking for that circuit for years to put it on 2m. If anyone knows where that one is, do let me know. I don't think it's in any of the issues I have or I'd have spotted it by now.

--73--

--Jeff Duntemann KG7JF
Scottsdale, Arizona

Date: Fri, 24 Jan 1997 09:46:34 -0700
From: "Deane D McIntyre" <dmcintyr@acs.ucalgary.ca>
To: glowbugs@theporch.com
Subject: Re: Tube sleepers from AES winter supplement
Message-ID: <9701241646.ZZ395412@ds1.acs.ucalgary.ca>

In message <9701241623.AA131243@csemail.cropsci.ncsu.edu> writes:

>

> I was looking over the AES winter flyer supplement for the usual odd
> project tube to pick up in bulk, and did not see much this time.

>

>

> 6DB5 0.50 THIS IS A REAL SLEEPER. It is 300 volt 50ma plate
> current beam power tube on a 9GR basing, 6.3 vac,

> 1.2 amp filament. At 50 cents each this is a real
> good value for qrp rigs or for oscillators or for
> pentode power detectors and audio stages. This one
> might be worth a dozen or so for playing.

Agreed....I have several on the way from AES. Basiclly a nine pin 6W6,
the ratings are the same, or a 12/17/25/35/50L6 with a higher plate
voltage rating. Except for socket and filament voltage should work in a
50C5 based rig FB.

> That is all that came to mind.

Actially...what about the 26E6WG (\$1.50), filament 26.5 V but 25 V
should work fine. An octal beam power tube with 14 watts plate
disapation(sp), sort of like a 6V6 or 6F6 as far as rating go
(max plate voltage of 26E6 is less however). Also the 10GK6 looks
interesting..\$1.00, same ratings as a 6BQ5. Both should work fine
in QRP or audio service.

>

> There is one other tube type that they list at 50 cents each. It is the
> 6AN5WA. Anyone know what that tube type is? I could not find a listing
> for it in my RCA RC-26 manual.

>

I have several of these on the way as well.....rugged version of 6AN5.
Beam Power tube, base 7BD, fil 6.3 V, 0.45A, typical operation
120 V on plate and screen, 120 ohm cathode resister, 35 mA plate
current, 12500 ohm plate resistance, Gm 8000, 1.3 watts into 2500
ohm load. Fine for audio or osc use. Was used in large numbers in the
EDVAC computer in 1949.

Need to keep them glowing...-27 C in Calgary this morning!

73, Deane D McIntyre VE6BP0(no connection to AES)
Deane@deane.bio.ucalgary.ca
<http://deane.bio.ucalgary.ca/>

Date: Fri, 24 Jan 1997 13:52:53 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: dmcintyr@acs.ucalgary.ca
Cc: rdkeys@csemail.cropsci.ncsu.edu (), glowbugs@theporch.com
Subject: Re: Tube sleepers from AES winter supplement
Message-ID: <9701241852.AA131628@csemail.cropsci.ncsu.edu>

> >

> > 6DB5 0.50 THIS IS A REAL SLEEPER. It is 300 volt 50ma plate
 > > current beam power tube on a 9GR basing, 6.3 vac,
 > > 1.2 amp filament. At 50 cents each this is a real
 > > good value for qrp rigs or for oscillators or for
 > > pentode power detectors and audio stages. This one
 > > might be worth a dozen or so for playing.
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 > Agreed....I have several on the way from AES. Basiclly a nine pin 6W6,
 > the ratings are the same, or a 12/17/25/35/50L6 with a higher plate
 > voltage rating. Except for socket and filament voltage should work in a
 > 50C5 based rig FB.

Excellent glowbug fodder then at a whoppin half a guildern de realme.
 This should give 15 watts input at 300v and 50ma. That would make for
 a pretty good breadboard ``50C5'' style rig.

Speaking of possible uses. This thing might be quite good as a generic
 tube socket adapter pentode for audio amplifiers generally. The type
 41 tubes are getting a little harder to find, and they are basically a
 6K6 type on a 6 pin base. Mebbe this would sub for one in the RAL or
 the BC-348.

> Actially...what about the 26E6WG (\$1.50), filament 26.5 V but 25 V
 > should work fine. An octal beam power tube with 14 watts plate
 > disapation(sp), sort of like a 6V6 or 6F6 as far as rating go
 > (max plate voltage of 26E6 is less however). Also the 10GK6 looks
 > interesting..\$1.00, same ratings as a 6BQ5. Both should work fine
 > in QRP or audio service.

As an octal tube, this makes a good general play tube. Good point.
 Also, at 26 volts it would work with the dynamotors in that kind of
 set.... lessee, a breadboard oscillator to a 3 paralleled amplifier
 on a 250 volt 1 amp dynamotor,..... Sounds like a great rig and
 maybe a good contender for a generic glowbug on 3579 or 1803.
 Call it Lt. Rives 1924 MOPA... Revisited.....

> > There is one other tube type that they list at 50 cents each. It is the
 > > 6AN5WA. Anyone know what that tube type is? I could not find a listing
 > > for it in my RCA RC-26 manual.
 > >
 > I have several of these on the way as well.....rugged version of 6AN5.
 > Beam Power tube, base 7BD, fil 6.3 V, 0.45A, typical operation
 > 120 V on plate and screen, 120 ohm cathode resister, 35 mA plate
 > current, 12500 ohm plate resistance, Gm 8000, 1.3 watts into 2500
 > ohm load. Fine for audio or osc use. Was used in large numbers in the
 > EDVAC computer in 1949.

This could also be a good sleeper tube. At 1.3 watts, it would be a

good candidate for the adapter clone for the standard 41 style audio in the RAL and the BC-348. Also, it would be just about the right amount of poop for a good regenerator with about 48 volts on the plates, as a detector and one step. What is its design max rating on the plate, mebbe 200/250/300v? If it were 120 volt that would be a bit low in all but low voltage applications like regenerators or vfo oscillators.

At 50 cents each, I am beginning to like it very much.....(:+}}.....

> Need to keep them glowing...-27 C in Calgary this morning!

We need some more cold snap down here in summery NC. We are getting thunderstorms and rains tonight..... oh well, there goes the top band.

73/ZUT DE NA4G/Bob UP

Date: Fri, 24 Jan 1997 13:59:47 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: glowbugs@theporch.com
Cc: rdkeys@csemail.cropsci.ncsu.edu ()
Subject: What 12xx7 tube is closest to the 5963 dual triode?
Message-ID: <9701241859.AA131651@csemail.cropsci.ncsu.edu>

What is the closest 12xx7 sub for the 5963 tube? My HB3 is missing those sheets and I can't seem to find out exactly what it compares to. It looks like an industrial 12AU7 or 12AV7 or 12AX7, but not the 12AT7 (tubes are different internally in structure slightly). Anyone, know offhand?

TNX/73/ZUT DE NA4G/Bob UP

Date: Fri, 24 Jan 1997 14:21:48 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: glowbugs@theporch.com
Cc: rdkeys@csemail.cropsci.ncsu.edu ()
Subject: What tube would you use in a lifetime application?
Message-ID: <9701241921.AA131718@csemail.cropsci.ncsu.edu>

Thoughts for general discussion.....

What Tube Would You Use in a Lifetime Application for a Receiver

That Would be Based Upon ONE Tube Type Throughout:

At first glance, this sounds deceptive, but let me pose a little scenario upon you.....

Joe Blo wants to build a simple but good receiver for 160/80/40/30M use with vacuum tube technology. The criteria are:

- 1) ONE tube type used throughout, for spares conservancy.
- 2) The tube type must be commonly available, subbable, or adaptable so that tube replacement problems would be nil, for the next 50 or so years. This means that Joe Blo out in Timbuktu, MN should be able to service and keep it going, reasonably, 50 years from now, hypothetically.
- 3) The design must be simple, serviceable, and rugged to the point of an amateur's version of MIL SPEC. Simple also means that it can be serviced by simple tools and electronics and practices by anyone down the road. NO special parts or hard to replace items are allowed.
- 4) The receiver must be a superheterodyne or a heterodyne or an autodyne receiver, capable of good frequency control, good bandspread for CW use, and sufficient audio to drive headphones of any type.
- 5) The power source must be sufficiently flexible to run off batteries, or the AC lines, or other such sources as might be found in the future.
- 6) It must be capable of being used with any type of antenna suited the the frequency coverage.

Now..... how would YOU do it, and make ol' Joe happy.

There are many ways to approach the problem, and back when I was a pencil pocket protector geek kid, I would have taken one approach. Twenty-five years back when I was a green novice, I might have taken a different approach. Nowadays, I might take an even different approach.

But, for the sake of discussion amongst the group, how would YOU do it?

73/ZUT DE NA4G/Bob UP

Date: Fri, 24 Jan 1997 10:31:58 -0800
From: mjsilva@ix.netcom.com (michael silva)
To: glowbugs@theporch.com
Subject: Re: What tube would you use in a lifetime application?
Message-ID: <199701241831.KAA17087@dfw-ix12.ix.netcom.com>

>Thoughts for general discussion.....

>

>What Tube Would You Use in a Lifetime Application for a Receiver

>That Would be Based Upon ONE Tube Type Throughout:

I'd use one of the triode-pentode combinations, e.g. 6EA8. In fact there have been receivers published that used nothing but these. Both sections are good to VHF so they can be used in both RF and AF work. The pentode section of the 6EA8 has 3W plate dissipation -- enough for decent audio output. If that's not enough you could always parallel or P-P two of them.

73,
Mike, KK6GM

End of GLOWBUGS Digest 425
